

**TROUBLE SHOOTING**

The screen is blank	<ul style="list-style-type: none"><li>• Check that the camera is powered up.</li><li>• Check that the monitor is powered up.</li><li>• Check that the video cable connecting the camera to the monitor is connected properly.</li></ul>
The screen image is dim	<ul style="list-style-type: none"><li>• Clean the lens (using a soft, clean cloth).</li><li>• Check that the light source is adequate.</li></ul>
The screen image has poor contrast	<ul style="list-style-type: none"><li>• Adjust the monitor's contrast knob.</li><li>• Change the position of the camera</li></ul>
The screen image flickers	<ul style="list-style-type: none"><li>• Change the position of the camera</li></ul>
The screen image is distorted	<ul style="list-style-type: none"><li>• Change the position of the camera</li></ul>
The camera case is hot	<ul style="list-style-type: none"><li>• Check that the correct power supply is in use.</li></ul>

**IMPORTANT**

Users and installers of this product are responsible for ensuring this product complies with all national, state, and local laws and statutes related to monitoring and recording audio and video signals. **SECO-LARM** will not be held responsible for the use of this product in violation of any current laws or statutes.

**WARNING**

This product was designed for indoor use only. Mounting outdoors or exposure to rain or moisture could cause a dangerous electric shock, damage the device, and void the warranty. Do not open the case of this device, as there are no field-serviceable components inside.

**WARRANTY**

All **SECO-LARM** products are warranted against defects in material and workmanship while used in normal service for a period of two (2) years from the date of sale to the original consumer customer. Our obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation prepaid, to **SECO-LARM**. For complete details regarding the **SECO-LARM** warranty, please contact **SECO-LARM**.

**FCC COMPLIANCE STATEMENT**

Information to the user: This equipment has been tested and found to comply with the limits for a class a digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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**SECO-LARM® U.S.A., Inc., 16842 Millikan Avenue, Irvine, CA 92606**

The information and specifications printed in this manual are current at the time of publication. However, **SECO-LARM**'s policy is one of continual development and improvement. For this reason, **SECO-LARM** reserves the right to change specifications without notice. **SECO-LARM** is also not responsible for misprints or typographical errors.

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# MANUAL

## EV-1324C12 & EV-1354C12\* 1/4" CCD Color Bullet Cameras

## EV-1323B12 & EV-1353B12\* 1/3" CCD B/W Bullet Cameras

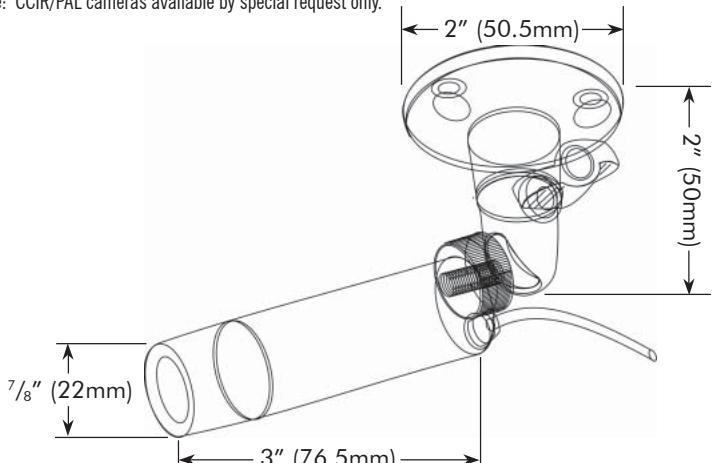
**SLI®****SECO-LARM® U.S.A., INC.**

\*Note: CCIR/PAL cameras available by special request only.

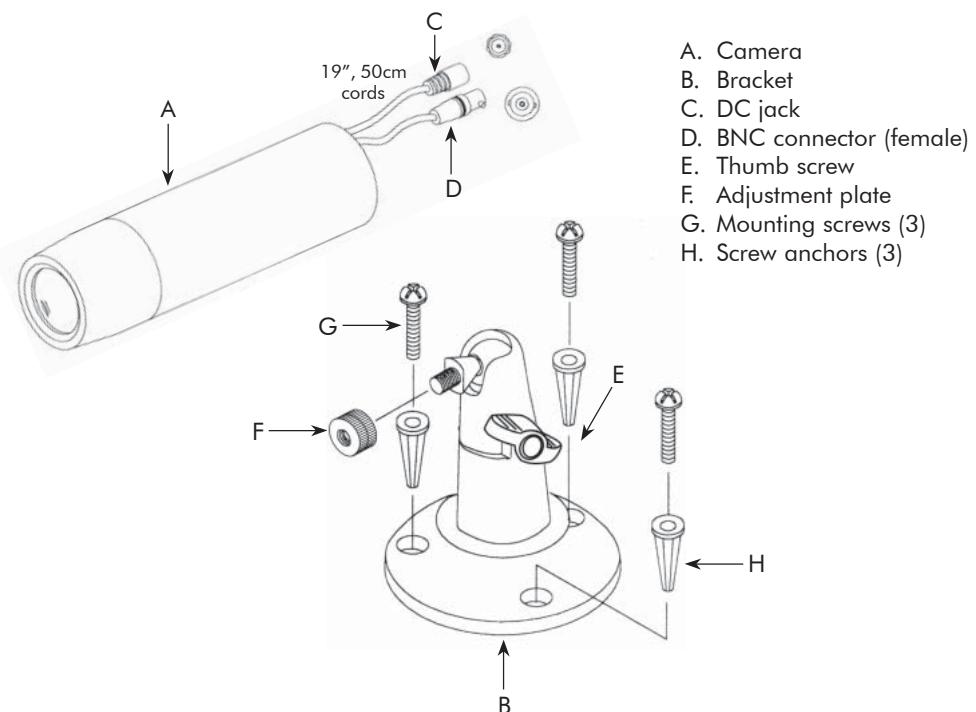
**Specifications**

	EV-1323B12 (EIA) EV-1353B12 (CCIR)*	EV-1324C12 (NTSC) EV-1354C12 (PAL)*
Type	B/W camera	Color camera
Chip	Samsung	Sharp
Resolution	420 TV lines	380 TV lines
Pickup elements	1/3" CCD 510 x 492 pixels (EIA) 500 x 582 pixels (CCIR)*	1/4" CCD 512 x 492 pixels (NTSC) 512 x 582 pixels (PAL)*
Scanning system	2:1 interlace V: 59.94Hz, H: 15.734KHz (EIA) V: 50Hz, H: 15.625KHz (CCIR)*	2:1 interlace V: 59.94Hz, H: 15.734KHz (NTSC) V: 50Hz, H: 15.625KHz (PAL)*
Sync	Internal	Internal
Video output	1V pp composite output, 75ohms	1V pp composite output, 75ohms
Lens	F2.0, 3.6mm (lens included)	F2.0, 3.6mm (lens included)
Minimum illumination	0.1 lux	1.0 lux
Gamma correction	0.45	0.45
S/N ratio	>48dB	>48dB
Shutter control	Auto Electronic Shutter 1/60~1/100,000 sec. (EIA) 1/50~1/100,000 sec. (CCIR)*	Auto Electronic Shutter 1/60~1/100,000 sec. (NTSC) 1/50~1/100,000 sec. (PAL)*
Backlight compensation	auto	auto
Automatic gain control	auto	auto
Power source	12VDC	12VDC
Power consumption	125mA	125mA
Storage temperature	22°~140°F (-30°~60°C)	22°~140°F (-30°~60°C)
Operating temperature	14°~113°F (-10°~45°C)	14°~113°F (-10°~45°C)
Dimensions (inc. cord mounting)	3 <sup>3</sup> / <sub>16</sub> " x 7 <sup>1</sup> / <sub>8</sub> " (81 x 22mm)	3 <sup>3</sup> / <sub>16</sub> " x 7 <sup>1</sup> / <sub>8</sub> " (81 x 22mm)
Weight	2.8 oz. (80g)	2.8 oz. (80g)

\*Note: CCIR/PAL cameras available by special request only.

**Parts List**

- 1 x Bullet camera
- 1 x Mounting bracket
- 3 x Mounting screws
- 3 x Screw anchors
- 1 x Manual

**BEFORE STARTING**

1. Do not mount the camera where it is exposed to rain or other moisture, or in humid or dusty places.
2. Do not point the camera at the sun. Heat could damage the camera, even when not in use.
3. Do not mount the camera in areas exposed to radiation, strong magnetic fields, or strong electrical signals.\*

4. Do not open or disassemble the camera. There are no user-serviceable parts inside.

5. Do not drop the camera or subject it to strong vibrations.

\* Note: Many video monitors produce strong electromagnetic fields close to the display CRT, especially when the monitor is turned on or during de-Gaussing, which occurs automatically with many monitors when the monitor is turned on.

**INSTALLATION**

1. Run a 12VDC power supply wire and a video cable with a male BNC connector through the wall to where the camera is to be mounted (if necessary).
2. Screw the bracket into the back of the camera. Make sure the adjustment plate is on the plastic screw between camera and bracket.
3. Temporarily connect the camera to the 12VDC power supply.
4. Temporarily connect the camera's female BNC connector to the video cable's male BNC connector.
5. While watching the monitor, hold the camera bracket against the wall by hand where it is to be mounted, then twist the camera until it is certain that this mounting location is correct. Use a pencil to mark the location of the three screw holes in the bracket.
6. Disconnect the 12VDC power supply and video cable.
7. Mount the bracket to the wall using the three included mounting screws. If the wall is made of dry wall, brick, or similar material, it may be necessary to use the three included screw anchors.
8. Reconnect the 12VDC power supply and video cable. Turn the monitor on, and make sure the camera is sending the proper video signal.
9. Adjust the camera angle:
  - (a) Loosen and tighten the bracket's thumb screw to turn the camera and change its angle relative to the bracket. This ensures the camera is pointing in the right direction.
  - (b) Loosen and tighten the adjustment plate to rotate the camera on its axis. This rotates the angle of the video image.
10. Tighten the bracket's thumb screw and the adjustment plate so that the camera does not move, but not so tight that it cracks the case or bracket.
11. Do a final test of the video camera and monitor.